

**ABSTRACT OF THE DISCLOSURE**

The present invention relates to a method for colonizing a root-organ from a plant with a mycorrhizal fungus that is representative of the naturally process of colonization of plant roots by mycorrhizal fungi. The present invention also relates to the use of this method for studying *in vitro* the colonization of plant roots with a mycorrhizal fungus and to an *in vitro* model for studying the colonization of plant roots with a mycorrhizal fungus.